

Indiana Department of Environmental Management

We make Indiana a cleaner, healthier place to live.

Frank O'Bannon Governor

Lori F. Kaplan
Commissioner

July 31, 2003

100 North Senate Avenue P. O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.IN.gov/idem

TO: Interested Parties / Applicant

RE: Rieth-Riley Construction, Co., Inc. F 097-15790-05166

FROM: Paul Dubenetzky

Chief, Permits Branch Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, within (18) eighteen days of the mailing of this notice. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- the date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for consideration at any hearing; and
- identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosure

FNPER.wpd 8/21/02



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100 North Senate Avenue P. O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.IN.gov/idem

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY and INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES

Rieth - Riley Construction Co., Inc. Portable

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 097-15790-05166

Issued by: Original signed by Paul Dubenetzky

Paul Dubenetzky, Branch Chief

Office of Air Quality

Issuance Date: July 31, 2003

Expiration Date: July 31, 2008

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SECTION A

SOURCE SUMMARY

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This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services. The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a portable hot mix drum asphalt manufacturing source.

Authorized individual: Asphalt Plant Specialist

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

General Source Phone: 219 - 875 - 5183

SIC Code: 2951

Source Location Status: Attainment for all criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)

Minor Source, under PSD or Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act

Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This portable source consists of the following emission units and pollution control devices:

- (a) One (1) hot mix drum mixer, constructed in 1998, equipped with a baghouse for particulate matter control, exhausting through stack SV-1, capacity: 400 tons per hour.
- (b) One (1) dryer burner, constructed in 1998, firing waste oil as a primary fuel and No. 2 distillate oil, No. 4 distillate oil, natural gas, butane gas, and propane as backup fuels, exhausting through stack SV-1, rated at 120 million British thermal units per hour.
- (c) One (1) hot oil heater, constructed in 1998, firing No. 2 fuel oil as a primary fuel with natural gas and propane gas as backup fuels, exhausting through stack SV-2, rated at 2.15 million British thermal units per hour
- (d) Two (2) reciprocating internal combustion engines, constructed in 1998, firing No. 2 fuel oil, exhausting through stacks SV-7 and SV-8, rated at 545 and 50 kilowatts (5.473 and 0.505 million British thermal units per hour), respectively.
- (e) Two (2) liquid asphalt storage tanks, identified as Tank 1 and Tank 2, constructed in 1998, exhausting through stacks SV-3 and SV-4, capacity: 35,000 and 20,000 gallons, respectively.
- (f) One (1) waste oil storage tank for burner fuel, identified as Tank 3, constructed in 1998, exhausting through stack SV-5, capacity: 15,000 gallons.
- (g) One (1) fuel oil storage tank for hot oil heater fuel, constructed in 1998, exhausting through stack SV-6, capacity: 420 gallons.
- (h) Two (2) storage tanks for the No. 2 distillate oil internal combustion engine fuel, constructed in 1998, exhausting through stacks SV-9 and SV-10, capacity: 160 and 224 gallons, respectively.

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(i) Cold-mix cutback asphalt production.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This portable source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

A.4 FESOP Applicability [326 IAC 2-8-2]

This portable source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

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SECTION B

GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and Indianapolis Office of Environmental Services, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by Indianapolis Office of Environmental Services.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, and Indianapolis Office of Environmental Services within a reasonable time, any information that IDEM, OAQ, and Indianapolis Office of Environmental Services may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, and Indianapolis Office of Environmental Services copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ and Indianapolis Office of Environmental Services may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

(b) The annual compliance certification report required by this permit shall be considered timely

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if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and Indianapolis Office of Environmental Services on or before the date it is due.

- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ and Indianapolis Office of Environmental Services, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
 - Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, and Indianapolis Office of Environmental Services upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and Indianapolis Office of Environmental Services. IDEM, OAQ, and Indianapolis Office of Environmental Services may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and the Indianapolis Office of Environmental Services, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)

or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

Indianapolis Office of Environmental Services 317-327-2237, fax 317-327-2274

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

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- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ and Indianapolis Office of Environmental Services may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ and Indianapolis Office of Environmental Services by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

(h) Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

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and

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using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or Indianapolis Office of Environmental Services determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ or Indianapolis Office of Environmental Services, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or Indianapolis Office of Environmental Services, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or Indianapolis Office of Environmental Services, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ or Indianapolis Office of Environmental Services and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC

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2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

and

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- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and Indianapolis Office of Environmental Services on or before the date it is due.
 - (2) If IDEM, OAQ and Indianapolis Office of Environmental Services, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

 If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ and Indianapolis Office of Environmental Services takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and Indianapolis Office of Environmental Services, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

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and

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Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.19 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

and

United States Environmental Protection Agency, Region V Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public

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review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and Indianapolis Office of Environmental Services in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
 The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

 The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2][IC13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ and Indianapolis Office of Environmental Services U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be

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submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

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SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]

Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable;
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on January 8, 1998. The plan consists of:

- (a) unpaved roads shall be controlled by one or more of the following:
 - (1) treating with water on an as-needed basis.
 - (2) paving with asphalt.
 - (3) treating with emulsified asphalt on an as-needed basis.
 - (4) double chip and seal the road surface on an as-needed basis.
- (b) dust from storage piles shall be controlled by one or more of the following measures:
 - (1) treating the stockpile area with water on an as-needed basis.
 - (2) treating the stockpiles with water on an as-needed basis.
 - (3) maintain minimum size and number of aggregate storage piles.
 - (4) treating stockpiles with emulsified asphalt on an as needed basis.

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- (c) dust from outdoor conveying of aggregates shall be controlled by applying water at the feed and intermediate points on an as needed basis.
- (d) dust from the transferring of aggregates shall be controlled by one or more of the following measures:
 - (1) minimize the vehicular distance between transfer points and enclose transfer points.
 - (2) apply water to transfer points on an as-needed basis.
 - (3) enclose the transfer points.
- (e) dust from the transportation of aggregate by truck, front end loader, etc., shall be controlled by one or more of the following measures:
 - (1) tarping aggregate hauling vehicles.
 - (2) maintain 10 mile per hour speed limits.
 - (3) maintain vehicle bodies in a condition that prevents leakage.
 - (4) spray aggregates with water.
- (f) dust from the loading and unloading of aggregates shall be controlled by one or more of the following measures:
 - (1) reduce free fall distance to a minimum.
 - (2) reduce the rate of discharge.
 - (3) spray water on aggregates on an as-needed basis.

C.8 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.9 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.10 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

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- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date:
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
 - The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Demolition and renovation

The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector

The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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Testing Requirements [326 IAC 2-8-4(3)]

C.11 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and Indianapolis Office of Environmental Services not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and Indianapolis Office of Environmental Services, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.12 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.13 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

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C.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

- C.15 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]
 - (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.
 - (b) Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.
 - (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance as defined in is present at a source in more than a threshold quantity, the source must comply with the applicable requirements of 40 CFR 68.

- C.17 Compliance Response Plan Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]
 - (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ and Indianapolis Office of Environmental Services, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
 - (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional

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- response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
- (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- The Permittee is not required to take any further response steps for any of the following (c) reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2)The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- When implementing reasonable steps in response to a compliance monitoring condition, if (d) the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- The Permittee shall record all instances when, in accordance with Section D, response steps (e) are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- When the results of a stack test performed in conformance with Section C Performance (a) Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

(a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management Technical Support and Modeling Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and Indianapolis Office of Environmental Services, on or before the date it is due.

C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

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(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services 2700 South Belmont Ave Indianapolis, IN 46221

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and Indianapolis Office of Environmental Services, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Portable Source Requirement

C.22 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County (Anderson Office of Air Management)

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- (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County (Evansville EPA)
- (3) City of Gary (Gary Department of Environmental Affairs)
- (4) City of Hammond (Hammond Department of Environmental Management)
- (5) Marion County (Indianapolis Office of Environmental Services)
- (6) St. Joseph County (St. Joseph County Health Department)
- (7) Vigo County (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) hot mix drum mixer, constructed in 1998, equipped with a baghouse for particulate matter control, exhausting through stack SV-1, capacity: 400 tons per hour.
- (b) One (1) dryer burner, constructed in 1998, firing waste oil as a primary fuel and No. 2 distillate oil, No. 4 distillate oil, natural gas and butane gas as backup fuels, exhausting through stack SV-1, rated at 120 million British thermal units per hour.
- (c) One (1) hot oil heater, constructed in 1998, firing No. 2 fuel oil as a primary fuel with natural gas and propane gas as backup fuels, exhausting through stack SV-2, rated at 2.15 million British thermal units per hour
- (d) Two (2) reciprocating internal combustion engines, constructed in 1998, firing No. 2 fuel oil, exhausting through stacks SV-7 and SV-8, rated at 545 and 50 kilowatts (5.473 and 0.505 million British thermal units per hour), respectively.
- (e) Two (2) liquid asphalt storage tanks, constructed in 1998, exhausting through stacks SV-3 and SV-4, capacity: 35,000 and 20,000 gallons, respectively.
- (f) One (1) waste oil storage tank for burner fuel, constructed in 1998, exhausting through stack SV-5, capacity: 15,000 gallons.
- (g) One (1) fuel oil storage tank for hot oil heater fuel, constructed in 1998, exhausting through stack SV-6. capacity: 420 gallons.
- (h) Two (2) storage tanks for the No. 2 distillate oil internal combustion engine fuel, constructed in 1998, exhausting through stacks SV-9 and SV-10, capacity: 160 and 224 gallons, respectively.
- (i) Cold-mix cutback asphalt production.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60 Subpart I.

D.1.2 Particulate Matter 10 Microns (PM₁₀) [326 IAC 2-8-4] [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4, emissions of particulate matter 10 microns or less in diameter (PM_{10}) from the aggregate dryer/mixer shall not exceed 0.119 pounds per ton of asphalt produced, including both filterable and condensible fractions.
- (b) The source shall not produce more than one million (1,000,000) tons of asphalt per 365 consecutive day period, equivalent to PM₁₀ emissions of 59.5 tons per year based on the 0.119 pounds of PM₁₀ per ton of asphalt produced. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the requirements of 326 IAC 2-2, 2-3, and the Part 70 rules (326 IAC 2-7) do not apply.

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D.1.3 Particulate Matter (PM) [40 CFR 60.90]

Pursuant to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), no owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

- (a) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot; or
- (b) Exhibit twenty (20%) percent opacity, or greater.

D.1.4 Particulate Matter (PM) [326 IAC 6-1] [326 IAC 2-2]

Pursuant to 326 IAC 6-1-2(a), the owner or operator shall not allow or permit discharge to the atmosphere of any gases from the one (1) drum mixer which contain particulate matter in excess of 0.03 grains per dry standard cubic foot, equivalent to 12.58 pounds per hour at a flow rate of 70,000 acfm and a temperature of 260 degrees Fahrenheit.

Compliance with these limits renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 2-8-4] [326 IAC 7-1.1-1] [326 IAC 7-2-1] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4, the input of waste oil to the dryer/burner shall be limited to less than 1,777,570 gallons per 365 consecutive day period which is equivalent to SO₂ emissions of less than 95.1 tons per year. The SO₂ emissions from the two (2) engines have been accounted for in the limit by equivalency by the number of hours of operation. The applicant has stated that keeping track of the number of hours of operation of the engines is preferable to keeping track of amount of the No. 2 distillate oil fired by the engines. The full SO₂ potential emission rate of 4.85 tons per year from the hot oil heater has been assumed in computing the limits
- (b) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the waste oil shall not exceed one percent (1.0%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.
- (c) For purposes of determining compliance based on SO₂ emissions, each gallon of No.2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of No.4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of butane and propane shall be equivalent to 0.000187 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil. Each hour of operation of the 0.505 million British thermal units per hour engine shall be equivalent to 1.369 gallons of waste oil and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 25.8 gallons of waste oil.
- (d) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the No.2 and No.4 distillate oils shall not exceed five tenth percent (0.5%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

Compliance with these limits renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.6 Nitrogen Oxides (NO_x) [326 IAC 2-8-4]

(a) Pursuant to 326 IAC 2-8-4, the input of natural gas to the dryer/burner shall be limited to less than 1036.8 million cubic feet per 365 consecutive day period which is equivalent to NO_{χ} emissions of less than 98.5 tons per year. The NO_{χ} emissions from the two (2) engines have been accounted for in the limit by equivalency by the number of hours of operation and CO, VOC, PM and PM_{10} have had the full potential emissions listed for the engines. The full NO_{χ} potential emission rate of 1.44 tons per year from the hot oil heater has been assumed in

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computing the limits.

(b) For purposes of determining compliance based on NO_x emissions every 1,000 gallons of butane shall be equivalent to 0.1105 million cubic feet of natural gas, every 1,000 gallons of propane shall be equivalent to 0.100 million cubic feet of natural gas, every 1,000 gallons of waste oil shall be equivalent to 0.0842 million cubic feet of natural gas, every 1,000 gallons of No. 2 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas, every 1,000 gallons of No. 4 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas and each hour of operation of the 0.505 million British thermal units per hour engine shall be equivalent to 0.0117 million cubic feet of natural gas and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 0.0893 million cubic feet of natural gas.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, liquid binder used in the production of cold mix cutback asphalt shall be limited to less than 2,124 tons of liquid binder per 365 consecutive day period, and the daily average diluent content of the liquid binder shall not exceed seven (7.0%) percent. This is equivalent to VOC emissions of less than 92.2 tons per year.

Compliance with this limit renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 not applicable.

D.1.8 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: asphalt paving), the owner or operator shall: not cause or allow the use of asphalt emulsion containing more than seven (7.0) percent oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage
- (c) application during the months of November, December, January, February and March

D.1.9 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the drum mixer/dryer burner and any control devices.

Compliance Determination Requirements

D.1.10 Testing Requirements [326 IAC 2-8-5(1), (4)] [326 IAC 2-1.1-11]

The Permittee shall perform PM and PM_{10} testing in order to demonstrate compliance with Conditions D.1.2, D.1.3, and D.1.4 utilizing methods as approved by the Commissioner. These tests shall be conducted prior to within one-hundred eighty (180) days after issuance of this permit, and shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. PM_{10} includes filterable and condensible PM_{10} . Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.11 VOC Emissions

Compliance with Condition D.1.7 shall be demonstrated at the end of each day based on the liquid binder usage for the 365 consecutive day period.

D.1.12 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions

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do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:

- Providing vendor analysis of fuel delivered, if accompanied by a vendor certification;
 or
- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 120 million British thermal units per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.13 Used Oil Requirements [329 IAC 13]

The waste oil burned in the aggregate dryer shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). Pursuant to 329 IAC 13-3-2 (Used Oil Specifications), used oil burned for energy recovery that is classified as off-specification used oil fuel shall comply with the provisions of 329 IAC 13-8 (Used Oil Burners Who Burn Off-specification Used Oil For Energy Recovery), including:

- (a) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
- (b) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and
- (c) Maintaining records pursuant to 329 IAC 13-8-6 (Tracking).

The burning of mixtures of used oil and hazardous waste that is regulated under 329 IAC 3.1 is prohibited at this source.

D.1.14 Particulate Control

In order to comply with Conditions D.1.2 and D.1.3, the baghouse for PM and PM_{10} control shall be in operation and control emissions from the drum mixer/dryer at all times that the drum mixer/dryer is in operation and exhausting to the outside atmosphere.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.15 Visible Emissions Notations

- (a) Visible emission notations of the conveyers, material transfer points, and the drum mixer/burner stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C Compliance Monitoring Plan Failure to Take Response Steps, shall be considered a violation of this permit.

D.1.16 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the mixer/dryer, at least once per shift when the drying/mixing process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan-Failure to Take Response Steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.17 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the dryer/burner operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.18 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C-Compliance Response Plan-Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B Emergency

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Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.19 Cutback Asphalt Production Rate

To document compliance with Condition D.1.7, the Permittee shall maintain daily records at the source of the following values:

- (a) Amount of liquid binder used in the production of cold mix cutback asphalt; and
- (b) Average diluent content of the liquid binder.

D.1.20 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records of the amount of asphalt produced per day.
- (b) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records in accordance with (1) through (7) below. Records maintained for (1) through (7) shall be taken daily and shall be complete and sufficient to establish compliance with the SO₂ and NO_x emission limits established in Conditions D.1.5 and D.1.6.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel usage of each fuel used since last compliance determination period and equivalent sulfur dioxide and nitrogen oxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (7) Amount of hours of operation of each of the two (2) reciprocating internal combustion engines.
- (c) To document compliance with Condition D.1.15, the Permittee shall maintain records of visible emission notations of the conveyors, transfer points, and the dryer/burner stack exhaust SV1 once per shift.
- (d) To document compliance with Condition D.1.16, the Permittee shall maintain once per shift records of the total static pressure drop.
- (e) To document compliance with Condition D.1.17, the Permittee shall maintain records of the results of the inspections required under Condition D.1.17.
- (f) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.

D.1.21 Record Keeping [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

The two (2) asphalt storage tanks, identified as Tank 1 and Tank 2, constructed in 1998, with capacities of 20,000 gallons and 35,000 gallons, respectively, as well as the one (1) waste oil storage tank,

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identified as Tank 3, installed in 1998, with a capacity of 15,000 gallons, shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). These tanks are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b) which requires the Permittee to maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.

D.1.22 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2, D.1.5, D.1.6 and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Rieth - Riley Construction Co., Inc.

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 097-15790-05166

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.	
Please check what document is being certified:	
9 Annual Compliance Certification Letter	
9 Test Result (specify)	
9 Report (specify)	
9 Notification (specify)	
9 Affidavit (specify)	
9 Other (specify)	
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.	
Signature:	
Printed Name:	
Title/Position:	
Phone:	
Date:	

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE BRANCH 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Phone: 317-233-5674 Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Rieth - Riley Construction Co., Inc.

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 097-15790-05166

This form consists of 2 pages

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9	This is an emergency as defined in 326 IAC 2-7-1(12
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- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

f any of the following are not applicable, mark N	I/A Page 2 of 2
Date/Time Emergency started:	
Date/Time Emergency was corrected:	
Was the facility being properly operated at the Describe:	time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ ,	VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted durin	g emergency:
Describe the steps taken to mitigate the proble	em:
Describe the corrective actions/response steps	s taken:
Describe the measures taken to minimize emis	ssions:
	ued operation of the facilities are necessary to prevent equipment, substantial loss of capital investment, or economic value:
Form Completed by: _	
Title / Position:	
Date:	
Phone:	

A certification is not required for this report.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

FESOP Monthly Report

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: 097-15790-05166 Facility: Dryer/mixer

Parameter: Tons of asphalt produced (PM₁₀)

Limit: 1,000,000 tons of asphalt produced per 365 consecutive day period, equivalent to

PM₁₀ emissions less than 59.5 tons per year.

	tons of	tons of asphalt	tons of asphalt		tons of	tons of asphalt	
Day	asphalt	produced (last		Day	asphalt	produced (last	produced (365
	produced	364 days)	day total)		produced	364 days)	day total)
	(this day)				(this day)		
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16	·						

9 No deviation occurred in this month.

tion/s occurred in this month. tion has been reported on:		

Attach a signed certification to complete this report.

Permit Reviewer: CJF/MES

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: 097-15790-05166 Facility: Dryer/mixer

Parameter: Gallons of waste oil burned in the aggregate dryer (SO₂)

Limit: 1,777,570 gallons of waste oil per 365 consecutive day period, where each gallon of No.2

distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of No.4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of butane and propane shall be equivalent to 0.000187 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil, equivalent to 5.607 gallons of waste oil, equivalent to 5.607 gallons of waste oil, equivalent to 5.607 gallons of waste oil and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 5.87 gallons of 5.473 million British thermal units per hour engine shall be equivalent to 5.87 gallons of

waste oil.

Month: Year: gallons of waste gallons of waste gallons of waste oil or equivalent oil or equivalent gallons of waste gallons of waste gallons of waste oil or equivalent oil or equivalent oil or equivalent Day Day burned (this burned (last 364 burned (365 day burned (this burned (last 364 burned (365 day day) days) total) day) days) total) 17 1 2 18 3 19 4 20 5 21 6 22 7 23 8 24 9 25 26 10 11 27 12 28 13 29 14 30 15 31 16

9 No deviation occurred in this month.

9	Deviation/s occurred in this month. Deviation has been reported on:
Submitte Title/Pos	·
Signatur	
Date:	
Phone:	

Attach a signed certification to complete this report.

Permit Reviewer: CJF/MES

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: 097-15790-05166 Facility: Dryer/mixer

Parameter: Million Cubic Feet of natural gas burned in the aggregate dryer (NO_x)

Limit: Less than 1036.8 million cubic feet of natural gas per 365 consecutive day period, where

1,000 gallons of butane shall be equivalent to 0.111 million cubic feet of natural gas, every 1,000 gallons of propane shall be equivalent to 0.100 million cubic feet of natural gas, every 1,000 gallons of waste oil shall be equivalent to 0.084 million cubic feet of natural gas, every 1,000 gallons of No. 2 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas, every 1,000 gallons of No. 4 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas and each hour of operation of the 0.505 million British thermal units per hour engine shall be equivalent to 0.0117 million cubic feet of natural gas and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 0.0893 million cubic feet of natural gas.

Month: _____ Year: _____

	Million Cubic	Million Cubic	Million Cubic		Million Cubic	Million Cubic	Million Cubic
Day			Feet of Gas or	Day			Feet of Gas or
1	or equivalent	equivalent	equivalent	,	or equivalent	equivalent	equivalent
	burned (this	burned (last	burned (365		burned (this	burned (last	burned (365
	day)	364 days)	day total)		day)	364 days)	day total)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

9	no deviation	occurrea in	i tnis montn.

9	Deviation/s occurred in this month. Deviation has been reported on:
Submitt	ed by:
Title/Po	sition:
Signatu	re:
Date:	
Phone:	

Permit Reviewer: CJF/MES

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: Portable

Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477

FESOP No.: 097-15790-05166

Facility: Cutback asphalt production

Parameter: Amount of liquid binder used in the production of cutback asphalt (VOC)

Limit: 2,124 tons of liquid binder used in the production of cutback asphalt per 365 consecutive day

period, equivalent to VOC emissions less than 92.2 tons per year

		Month:		Year:		_	
	tons of liquid		tons of liquid		tons of liquid		tons of liquid
Day	binder used			Day	binder used	binder used	
	(this day)	(last 364 days)	(365 day total)		(this day)	(last 364 days)	(365 day total)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

	9	No deviation	occurred in	this month
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	n/s occurred in this month. n has been reported on:
Submitted by:	
Title / Position:	
Signature:	
Date:	
Phone:	

Attach a signed certification to complete this report.

Response Steps Taken:

Permit Reviewer: CJF/MES

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Source Address:	Rieth-Riley Con Portable	struction Co., I	nc.	
Mailing Address:	P.O. Box 477, G		a 46527-0477	
FESOP No.:	097-15790-0516	66		
	Months:	to	Year:	
				Page 1 of
the date(s) of ea be reported. Dev according to the report. Additiona	ch deviation, the priations that are red schedule stated in	probable cause quired to be report the applicable tached if necessitached if necessitations.	of the deviation, and the ported by an applicable re requirement and do no ssary. If no deviations of	riation from the requirements, e response steps taken must equirement shall be reported of need to be included in this occurred, please specify in the
9 NO DEVIATIO	NS OCCURRED	THIS REPORT	ING PERIOD.	
9 THE FOLLOW	ING DEVIATIONS	OCCURRED	THIS REPORTING PER	RIOD
Permit Requirer	ment (specify perr	mit condition #)		
Date of Deviation	on:		Duration of Deviation	n:
Number of Devi	ations:			
Probable Cause	of Deviation:			
Response Steps	s Taken:			
Permit Requirer	ment (specify perr	nit condition #)		
Date of Deviation	n:		Duration of Deviation	n:
Number of Devi	ations:			
Probable Cause	of Deviation:			

Page 2 of 2

Permit Requirement (specify permit condition #)						
Date of Deviation: Duration of Deviation:						
Number of Devia	tions:					
Probable Cause	of Deviation:					
Response Steps	Taken:					
Permit Requirem	ent (specify permit condition #)					
Date of Deviatio	n:	Duration of Deviation:				
Number of Devia	tions:					
Probable Cause	of Deviation:					
Response Steps	Taken:					
Permit Requirem	ent (specify permit condition #)					
Date of Deviation	1:	Duration of Deviation:				
Number of Devia	tions:					
Probable Cause	of Deviation:					
Response Steps	Taken:					
9 No deviation occurred in this quarter.						
9 Deviation/s occurred in this quarter. Deviation has been reported on:						
Form Completed By:						
Title/Position:						
	Date:					
Phone:						

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name: Rieth - Riley Construction Co., Inc.

Source Location: Portable (currently located at 1715 West Minnesota Street,

Indianapolis, Marion County)

County: Marion SIC Code: 2951

Operation Permit No.: F 145-15790-05166 Permit Reviewer: Craig J. Friederich

On June 7, 2003, the Office of Air Quality (OAQ) had a notice published in the Indianapolis Star & News, Indianapolis, Indiana, stating that Rieth - Riley Construction Co., Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a portable hot mix drum asphalt manufacturing source with a baghouse for particulate control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On June 30, 2003, Steven G. Adler, President of Belmont Terminals, submitted a comment on the proposed FESOP Renewal. The summary of the comment is as follows:

Comment 1:

Our company owns the adjacent properties located at 1905 Minnesota Street and 1777 South Belmont Avenue in Indianapolis. We are requesting that OAQ continue to send notices to this office regarding any future proceedings conducted related to this action.

Response 1:

The IDEM, OAQ appreciates your interest. Since a request has been made, and the source is located adjacent to Rieth-Riley Construction Co., Inc., the IDEM, OAQ will automatically send Mr. Steven G. Adler all decisions and notices on this matter. There are no changes to the permit as a result of this comment.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name: Rieth - Riley Construction Co., Inc.

Source Location: Portable (currently located at 1715 West Minnesota Street,

Indianapolis, Marion County)

SIC Code: 2951

Operation Permit No.: F 097-15790-05166
Permit Reviewer: Craig J. Friederich

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Rieth - Riley Construction Co., Inc. relating to the operation of a portable hot mix drum asphalt manufacturing source. Rieth - Riley Construction Co., Inc. was issued FESOP 145-9355-05166, on March 31, 1998.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) hot mix drum mixer, constructed in 1998, equipped with a baghouse for particulate matter control, exhausting through stack SV-1, capacity: 400 tons per hour.
- (b) One (1) dryer burner, constructed in 1998, firing waste oil as a primary fuel and No. 2 distillate oil, No. 4 distillate oil, natural gas, butane gas, and propane as backup fuels, exhausting through stack SV-1, rated at 120 million British thermal units per hour.
- (c) One (1) hot oil heater, constructed in 1998, firing No. 2 fuel oil as a primary fuel with natural gas and propane gas as backup fuels, exhausting through stack SV-2, rated at 2.15 million British thermal units per hour
- (d) Two (2) reciprocating internal combustion engines, constructed in 1998, firing No. 2 fuel oil, exhausting through stacks SV-7 and SV-8, rated at 545 and 50 kilowatts (5.473 and 0.505 million British thermal units per hour), respectively.
- (e) Two (2) liquid asphalt storage tanks, identified as Tank 1 and Tank 2, constructed in 1998, exhausting through stacks SV-3 and SV-4, capacity: 35,000 and 20,000 gallons, respectively.
- (f) One (1) waste oil storage tank for burner fuel, identified as Tank 3, constructed in 1998, exhausting through stack SV-5, capacity: 15,000 gallons.
- (g) One (1) fuel oil storage tank for hot oil heater fuel, constructed in 1998, exhausting through stack SV-6, capacity: 420 gallons.

Rieth - Riley Construction Co., Inc.

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Portable

F 097-15790-05166

Permit Reviewer: CJF/MES

(h) Two (2) storage tanks for the No. 2 distillate oil internal combustion engine fuel, constructed in 1998, exhausting through stacks SV-9 and SV-10, capacity: 160 and 224 gallons, respectively.

(i) Cold-mix cutback asphalt production.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving New Source Review Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

Existing Approvals

The source has been operating under the following previous approvals including:

- (a) FESOP 145-9355-05166, on March 31, 1998, and
- (b) SPR 093-12640-05166, issued on November 28, 2000.

The following terms and conditions from previous approvals have been revised in this permit:

FESOP 145-9355-05166, on March 31, 1998.

- (a) Conditions D.1.1 and D.1.2 contained fuel usage limitations which limited SO_2 and NO_X emissions from the dryer/burner. These fuel limits were updated using the latest AP-42 emission factors.
- (b) Condition D.1.3 contained an erroneous PM emission limit pursuant to 326 IAC 6-1-2. The limit has been changed from 13.2 pounds per hour to 12.58 pounds per hour.
- (c) Condition D.1.7 contained a VOC limit for cutback asphalt of 94.9 tons per year. Due to updates in the AP-42 emission factors for VOC from combustion, the emissions of VOC from cutback asphalt production must be limited to less than 92.2 tons per year. Therefore, the source is now limited to less than 2,124 tons of liquid binder per 365 consecutive day period.

Rieth - Riley Construction Co., Inc.

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F 097-15790-05166

Permit Reviewer: CJF/MES

SPR 093-12640-05166, issued on November 28, 2000.

(d) Condition D.1.6 contained a production limit of 1,000,000 tons of asphalt concrete per twelve (12) consecutive month period, equivalent to PM_{10} emissions of 78.2 tons per year based on a 0.1564 pounds of PM_{10} per ton of asphalt produced emission factor. Due to updated emission factors, the limit shall be changed to a production limit of 1,000,000 tons of asphalt concrete per 365 consecutive day period, equivalent to PM_{10} emissions of 59.5 tons per year based on a 0.119 pounds of PM_{10} per ton of asphalt produced emission factor

The following terms and conditions from previous approvals have been determined to be no longer applicable, and, therefore, are not incorporated into this permit:

FESOP 145-9355-05166, on March 31, 1998.

(e) Condition D.1.4 contained a pound per hour PM emission limit pursuant to 40 CFR 60.90 to 60.93, Subpart I and 326 IAC 6-3-2. Since this source is an asphalt concrete plant, which is portable, currently located in Marion County, and constructed after June 11, 1973, the facility is subject to the most stringent PM limit which is contained in 326 IAC 6-1-2(a).

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on June 24, 2002.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See pages 1 through 14 of 14 of Appendix A of this document for detailed emissions calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/year)	
PM	greater than 250	
PM ₁₀	greater than 250	

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Rieth - Riley Construction Co., Inc. Portable

Permit Reviewer: CJF/MES

Pollutant	Unrestricted Potential Emissions (tons/year)
SO ₂	greater than 250
VOC	greater than 250
CO	less than 100
NO _x	greater than 100, less than 250

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Unrestricted Potential Emissions (tons/year)
TOTAL HAPs	10.2

^{*} HAPs include benzene, ethyl benzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury and nickel compounds. No single HAP exceeds a potential to emit of greater than ten (10) tons per year.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM_{10} , SO_2 , VOC, and NO_X are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
 Although this type of operation is not one of the twenty-eight (28) listed sources under 326
 IAC 2-2, there are applicable New Source Performance Standards that were in effect on
 August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on March 31, 1998, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F 145-9355-05166; issued on March 31, 1998).

Portable

Permit Reviewer: CJF/MES

		Potential to Emit After Issuance (tons/year)					
Process/emission unit	PM	PM ₁₀	SO ₂	VOC	СО	NO _x	HAPs
Drum dryer/burner (worst case)	55.1	less than 59.5	less than 95.1 *	3.75	44.2	less than 98.5 *	10.2
Two (2) reciprocating engines	2.36	2.06	*included in above limit	3.29	21.5	*included in above limit	
Hot oil heater (worst case)	0.136	0.225	4.85	0.196	0.341	1.44	
Conveying, handling	4.92	0.492					
Unpaved Roads	164	34.4					
Storage piles	0.846	0.296					
Cutback asphalt				less than 92.2			
Insignificant Activities	5.00	3.00		0.500			0.500
Total PTE After Issuance	232	less than 100	less than 100	less than 100	66.0	less than 100	Single less than 10 Total less than 25

- (a) The PM value for the Drum Mixer/Burner represents the allowable emissions pursuant to 326 IAC 6-1-2(a).
- (b) The allowable PM_{10} emissions were computed by taking the full PTE of all facilities at the source, including unpaved roads and insignificant activities, and subtracting that value from one-hundred (100). This will ensure that the requirements of 326 IAC 2-7 (Part 70) are not applicable.

County Attainment Status

The source is currently located in Marion County.

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment

Rieth - Riley Construction Co., Inc.

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Portable

F 097-15790-05166

Permit Reviewer: CJF/MES

CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.
- (b) Fugitive Emissions

Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Since unpaved roads are not an affected facility of the applicable NSPS (40 CFR 60.90, Subpart I), fugitive PM emissions resulting from unpaved roads are not counted toward determination of PSD and Emission Offset applicability.

Portable Source

(a) Location

This is a portable source and its current location is currently located at 1715 West Minnesota Street, Indianapolis, Marion County.

(b) PSD and Emission Offset Requirements

The emissions for this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.

Federal Rule Applicability

- (a) This asphalt plant is still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), because it was constructed after June 11, 1973. No owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:
 - (1) contain particulate matter in excess of 0.04 grains per dry standard cubic foot; or
 - (2) exhibit 20 percent opacity, or greater.

Compliance with the requirements of 326 IAC 6-1 will ensure compliance with NSPS Subpart I.

(b) The two (2) asphalt storage tanks, identified as Tank 1 and Tank 2, constructed in 1998, with capacities of 20,000 gallons and 35,000 gallons, respectively, as well as the one (1) waste oil storage tank, identified as Tank 3, installed in 1998, with a capacity of 15,000, are still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) because the tanks have a capacity greater than forty (40) cubic meters, and were constructed after July 23, 1984. Since the materials stored in these tanks have a vapor pressure less than 15.0 kiloPascals, these tanks are only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.

Rieth - Riley Construction Co., Inc.

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Portable

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(c) The 420 gallon fuel oil storage tank and the two (2) storage tanks for generator fuel with capacities of 160 and 224 gallons, respectively, are not subject to the requirements of NSPS Subpart Kb since their individual capacities are less than 40 cubic meters.

(d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Since unpaved roads are not an affected facility of the applicable NSPS (40 CFR 60.90, Subpart I), fugitive PM emissions resulting from unpaved roads are not counted toward determination of PSD and Emission Offset applicability.

This source was constructed after August 7, 1977. The limited potential to emit of VOC, PM, PM_{10} , and SO_2 from the entire source, excluding fugitive PM emissions from unpaved roads, are each less than one hundred (100) tons per year. PM emissions are limited by the requirements of 326 IAC 6-1. PM_{10} and SO_2 are limited to less than one-hundred (100) tons per year pursuant to 326 IAC 2-8-4. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) are not applicable, and this source is a minor source with respect to these rules.

326 IAC 2-4.1-1 (New Source Toxics Control)

The total potential to emit each individual hazardous air pollutant (HAP) from the entire source is less than ten (10) tons per year and the potential to emit total HAPs is less than a total of twenty-five (25) tons per year, therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

326 IAC 2-6 (Emission Reporting)

This portable source is subject to 326 IAC 2-6 (Emission Reporting) because it is a portable asphalt plant that can re-locate to one of the counties specified in 326 IAC 2-6-1. Pursuant to this rule, the owner/operator of the source must submit an emission statement for the source. The statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6 and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8).

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM_{10} , SO_2 , VOC, and NO_X shall be limited to less than one hundred (100) tons per year.

(a) In order to limit the potential to emit PM_{10} from the entire source to less than one hundred (100) tons per year, the PM_{10} emissions from the drum mixer (including the burner) will be limited to 59.5 tons per year. This limit, plus the full potential to emit from all other facilities at the source, including insignificant activities, will ensure that the potential to emit PM_{10} from the entire source will be less than one-hundred (100) tons per year. The source has requested a production limit of 1,000,000 tons of asphalt produced per year. This

Rieth - Riley Construction Co., Inc.

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Portable

F 097-15790-05166

Permit Reviewer: CJF/MES

production limit, combined with an emission factor not to exceed 0.119 pounds of PM_{10} per ton of asphalt produced, is equivalent to 59.5 tons of PM_{10} per year.

(b) The total amount of waste oil fuel burned at the dryer/burner shall be limited to less than 1,777,570 gallons per 365 consecutive day period, which is equivalent to an SO₂ limit of less than 95.1 tons per twelve (12) consecutive month period (see page 13 of 14 of Appendix A). The SO₂ emissions from the two (2) engines have been accounted for in the limit by equivalency by the number of hours of operation. The applicant has stated that keeping track of the number of hours of operation of the engines is preferable to keeping track of amount of the No. 2 distillate oil fired by the engines.

The full SO₂ potential emission rate of 4.85 tons per year from the hot oil heater has been assumed in computing the limits

For purposes of determining compliance based on SO_2 emissions, each gallon of No.2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of No.4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of butane and propane shall be equivalent to 0.000187 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil. Each hour of operation of the 0.505 million British thermal units per hour engine shall be equivalent to 1.369 gallons of waste oil and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 25.8 gallons of waste oil.

(c) Similarly, the total amount of natural gas burned at the dryer/burner shall be limited to 1036.8 million cubic feet per 365 consecutive day period which is equivalent to an NO_X limit of 98.5 tons per year (see page 11 of 14 in Appendix A). The NO_X emissions from the two (2) engines have been accounted for in the limit by equivalency by the number of hours of operation and CO, VOC, PM and PM_{10} have had the full potential emissions listed for the engines.

The full NO_x potential emission rate of 1.44 tons per year from the hot oil heater has been assumed in computing the limits.

For purposes of determining compliance based on NO_x emissions every 1,000 gallons of butane shall be equivalent to 0.1105 million cubic feet of natural gas, every 1,000 gallons of propane shall be equivalent to 0.100 million cubic feet of natural gas, every 1,000 gallons of waste oil shall be equivalent to 0.0842 million cubic feet of natural gas, every 1,000 gallons of No. 2 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas, every 1,000 gallons of No. 4 distillate oil shall be equivalent to 0.1263 million cubic feet of natural gas and each hour of operation of the 0.505 million British thermal units per hour engine shall be equivalent to 0.0117 million cubic feet of natural gas and each hour of operation of the 5.473 million British thermal units per hour engine shall be equivalent to 0.0893 million cubic feet of natural gas.

(d) The liquid binder usage shall be limited for the production of cold mix cutback asphalt to less than 2,124 tons per year which is equivalent to VOC emissions of 92.2 tons per year based on 7.0 percent diluent present in the asphalt.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This is a portable asphalt plant with the potential to emit PM from fugitive emissions greater than twenty-five (25) tons per year. Therefore, this source is subject to the requirements of 326 IAC 6-5. This rule requires a fugitive dust plan to be submitted. The plan was submitted on January 8, 1998, was reviewed, and approved and consists of the following:

- (a) unpaved roads shall be controlled by one or more of the following:
 - (1) treating with water on an as-needed basis.
 - (2) paving with asphalt.
 - (3) treating with emulsified asphalt on an as-needed basis.
 - (4) double chip and seal the road surface on an as-needed basis.
- (b) dust from storage piles shall be controlled by one or more of the following measures:
 - (1) treating the stockpile area with water on an as-needed basis.
 - (2) treating the stockpiles with water on an as-needed basis.
 - (3) maintain minimum size and number of aggregate storage piles.
 - (4) treating stockpiles with emulsified asphalt on an as needed basis.
- (c) dust from outdoor conveying of aggregates shall be controlled by applying water at the feed and intermediate points on an as needed basis.
- (d) dust from the transferring of aggregates shall be controlled by one or more of the following measures:
 - (1) minimize the vehicular distance between transfer points and enclose transfer points.
 - (2) apply water to transfer points on an as-needed basis.
 - (3) enclose the transfer points.

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(e) dust from the transportation of aggregate by truck, front end loader, etc., shall be controlled by one or more of the following measures:

- (1) tarping aggregate hauling vehicles.
- (2) maintain 10 mile per hour speed limits.
- (3) maintain vehicle bodies in a condition that prevents leakage.
- (4) spray aggregates with water.
- (f) dust from the loading and unloading of aggregates shall be controlled by one or more of the following measures:
 - (1) reduce free fall distance to a minimum.
 - (2) reduce the rate of discharge.
 - (3) spray water on aggregates on an as-needed basis.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

The one (1) dryer burner, rated at 120 million British thermal units per hour, is subject to the requirements of 326 IAC 7-1.1, since the potential to emit SO_2 is greater than twenty-five (25) tons per year. This rule requires levels of sulfur dioxide emissions from the combustion of No.2 distillate and No.4 distillate fuel oils not to exceed 0.5 pounds per million British thermal units of heat input (the equivalent of 0.5% sulfur content at a higher heating value of 0.138 million British thermal units per gallon and a maximum heat input rate of 120 million British thermal units per hour).

This rule also requires levels of sulfur dioxide emissions from the combustion of residual waste oil not to exceed 1.6 pounds per million British thermal units of heat input (the equivalent of 1.062% sulfur content at a higher heating value of 0.142 million British thermal units per gallon and a maximum heat input rate of 120 million British thermal units per hour). The source has requested a voluntary limit of 1.0% sulfur content.

326 IAC 7-2-1 (Sulfur Dioxide Compliance: reporting and methods to determine compliance)

Reports of calendar month or annual average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate shall be provided upon request to the Office of Air Quality.

326 IAC 8-5-2 (Miscellaneous operations: asphalt paving)

The requirements of 326 IAC 8-5-2 are applicable to any asphalt paving application located anywhere in the state. No person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage
- (c) application during the months of November, December, January, February and March.

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State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (Particulate Matter; Non-attainment Area Limitations)

This is a portable asphalt plant with the potential to emit PM of greater than one-hundred (100) tons per year. Therefore, the requirements of 326 IAC 6-1-2 (Particulate Matter; Non-attainment Area Limitations) are applicable. Pursuant to 326 IAC 6-1-2, since this plant was constructed after June 11, 1973, the particulate matter emissions from this portable asphalt plant shall not exceed 0.03 grains per dry standard cubic foot, equivalent to 12.58 pounds per hour at a flow rate of 70,000 actual cubic feet per minute and a temperature of 260 degrees Fahrenheit. Compliance with this limit will ensure compliance with the 0.04 grains per dry standard cubic foot limit prescribed by NSPS Subpart I.

Testing Requirements

Pursuant to SPR 093-12640-05166, PM and PM_{10} testing was to be performed between sixty (60) and one-hundred eighty (180) days after issuance of the permit. These stack tests were never conducted. Therefore, PM and PM_{10} testing is to be performed on the drum mixer and dryer/burner stack exhaust SV1 within one-hundred eighty (180) days after issuance of this permit in order to assure compliance with 326 IAC 2-2, 326 IAC 2-8-4, 326 IAC 6-1, and NSPS Subpart I as shown in Appendix A.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

The one (1) drum mixer has applicable compliance monitoring conditions as specified below:

(a) Visible emissions notations of the baghouse, conveyors, and material transfer points shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained

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employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

- (b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the one (1) drum mixer, at least once per shift when the drying/mixing process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan Preparation, Implementation, Records, and Reports.
- (c) An inspection shall be performed within the last month of each calender quarter of all bags controlling the one (1) drum mixer. All defective bags shall be replaced.
- (d) In the event that bag failure has been observed:
 - (A) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this proposed permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C Compliance Monitoring Plan Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
 - (B) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this proposed permit (Section B Emergency Provisions).

These monitoring conditions are necessary because the baghouse for the one (1) drum mixer must operate properly to ensure compliance with 326 IAC 5-1 (Opacity), 326 IAC 6-1 (Nonattainment Area Particulate Limitations), 326 IAC 2-8 (FESOP) and NSPS Subpart I.

Conclusion

The operation of this portable hot mix drum asphalt manufacturing source shall be subject to the conditions of the attached proposed FESOP Renewal No.: F 097-15790-05166.

Appendix A: Emission Calculations

Company Name: Rieth-Riley Construction Co., Inc.

Plant Location: Portable
County: Portable
FESOP: F 097-15790
Plt. ID: 097-05166
Date: June 24, 2002

Permit Reviewer: Craig J. Friederich

I. Potential Emissions

A. Source emissions before controls

			Hot Oil Heater on ((oil/<100MMBTU/u			Hot Oil Heater	(butane)
The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3				The following ca gas @	0.20 grains sulfur per 100 d	of emissions created by butane cubic feet, based on 8760 hours of use AP-42 Ch. 1.5, Table 1.5-1	
	Pollutant:	2.150 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	0.000 MM	1Btu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	_	138000.0 Btu/ga	al * 2000 lbs/ton		102600.0 Btu	/gal * 2000 lbs/ton	<u> </u>
		PM:	2.0 lbs/1000 gal =	0.136 tons/yr	P M:	0.5 lbs/1000 gal =	0.000 tons/yr
		PM-10	3.3 lbs/1000 gal =	0.225 tons/yr	PM-10:	0.5 lbs/1000 gal =	0.000 tons/yr
		SOx:	71.0 lbs/1000 gal =	4.845 tons/yr	SOx:	0.02 lbs/1000 gal =	0.000 tons/yr
		NOx:	20.0 lbs/1000 gal =	1.365 tons/yr	NOx:	15.0 lbs/1000 gal =	0.000 tons/yr
		V O C:	0.34 lbs/1000 gal =	0.023 tons/yr	V O C:	0.60 lbs/1000 gal =	0.000 tons/yr
		C O:	5.0 lbs/1000 gal =	0.341 tons/yr	C O:	2.1 lbs/1000 gal =	0.000 tons/yr
			Hot Oil Heater on	Gas		Hot Oil Heater	(propane)
			(gas/<100MMBTU/i	uncontrolled)	The following ca	culations determine the amount	of emissions created by propane
The following calcula	ations determine	e the amount of en		•	gas @		cubic feet, based on 8760 hours of use
natural gas combustion	, based on 8760) hours of use, AP	-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3	3	_	and A	AP-42 Ch. 1.5, Table 1.5-1
	Pollutant:	2.150 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)	2.150 MM	1Btu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
		1000 Btu/cf	* 2000 lbs/ton		91500.0 Btu	/gal * 2000 lbs/ton	<u> </u>
		PM:	1.9 lbs/MMcf =	0.018 tons/yr	P M:	0.4 lbs/1000 gal =	0.041 tons/yr
		P M-10:	7.6 lbs/MMcf =	0.072 tons/yr	PM-10:	0.4 lbs/1000 gal =	0.041 tons/yr
		SOx:	0.6 lbs/MMcf =	0.006 tons/yr	SOx:	0.02 lbs/1000 gal =	0.002 tons/yr
		NOx:	100.0 lbs/MMcf =	0.942 tons/yr	NOx:	14.0 lbs/1000 gal =	1.441 tons/yr
		V O C:	5.5 lbs/MMcf =	0.052 tons/yr	V O C:	1.90 lbs/1000 gal =	0.196 tons/yr
		V O C.					

Dryer Burner (gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	0.000 MMB	* Ef (lbs/MMcf) = (tons/yr)	
	1000 Btu/c	f * 2000 lbs/ton	
	PM:	1.9 lbs/MMcf =	0.0000 tons/yr
	P M-10:	7.6 lbs/MMcf =	0.000 tons/yr
	SOx:	0.6 lbs/MMcf =	0.000 tons/yr
	NOx:	100.0 lbs/MMcf =	0.0000 tons/yr
	V O C:	5.5 lbs/MMcf =	0.000 tons/yr
	C O:	84.0 lbs/MMcf =	0.000 tons/yr

Dryer Burner (gas/>100MMBTU/uncontrolled)
The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

	Pollutant:	120.000 MME	Btu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/yr)
		1000 Btu/o	cf * 2000 lbs/ton	
		PM:	1.9 lbs/MMcf =	0.999 tons/yr
		P M-10:	7.6 lbs/MMcf =	3.995 tons/yr
		SOx:	0.6 lbs/MMcf =	0.315 tons/yr
Post-NSPS = 190		NOx:	190.0 lbs/MMcf =	99.86 tons/yr
		V O C:	5.5 lbs/MMcf =	2.891 tons/yr
		C O:	84.0 lbs/MMcf =	44.150 tons/yr

Dryer Burner

(gas/>100MMBTU/low nox)

The following calculations determine the amount of emissions created by

natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (low NOx burner = 140, flue gas recirculation = 100)

Pollutant:	0.000 MMBt	* Ef (lbs/MMcf) (tons/yr)	
	1000 Btu/cf	* 2000 lbs/ton	
	PM:	1.9 lbs/MMcf =	0.000 tons/yr
	P M-10:	7.6 lbs/MMcf =	0.000 tons/yr
	SOx:	0.6 lbs/MMcf =	0.000 tons/yr
	NOx:	140.0 lbs/MMcf =	0.000 tons/yr
	V O C:	5.5 lbs/MMcf =	0.000 tons/yr
	C O:	84.0 lb/MMcf =	0.000 tons/yr

Dryer Burner

(#2 oil)

>100 MMbtu/hr

The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ **0.5** % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	120.0 MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	138000.0 Btu/gal * 2000 lbs/ton	

		P M:	2.0 lbs/1000 gal =	7.617 tons/yr
If Rating >10	00 mmBt	PM-10:	3.3 lbs/1000 gal =	12.569 tons/yr
		S O x:	71.0 lbs/1000 gal =	270.417 tons/yr
NOx:	24.0	NOx:	24.0 lbs/1000 gal =	91.409 tons/yr
V O C:	0.20	V O C:	0.20 lbs/1000 gal =	0.762 tons/yr
		C O:	5.0 lbs/1000 gal =	19.043 tons/yr

	Dryer Burner	(#4 oil/ <100MMBTU)		
		nissions created by #4 distillate		
fuel oil @ 0	.5 % sulfur, based on 8	760 hours of use and AP-42, Tables 1.3-1, 1.	3-2, 1.3-3	
Pollutar	nt: 0.000 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
	138000.0 Btu/ga	al * 2000 lbs/ton		
	PM:	2.0 lbs/1000 gal =	0.000 tons/yr	
	PM-10:	3.3 lbs/1000 gal =	0.000 tons/yr	
	SOx:	71.0 lbs/1000 gal =	0.000 tons/yr	
	NOx:	20.0 lbs/1000 gal =	0.000 tons/yr	
	V O C:	0.34 lbs/1000 gal =	0.000 tons/yr	
	C O:	5.0 lbs/1000 gal =	0.000 tons/yr	
	Dryer Burner	(#4 oil/ >100MMBTU)		
		nissions created by #4 distillate 760 hours of use and AP-42, Tables 1.3-1, 1.	3-2, 1.3-3	
Pollutar	nt: 120.0 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
	138000.0 Btu/ga			
	PM:	2.0 lbs/1000 gal =	7.617 tons/yr	
	PM-10:	3.3 lbs/1000 gal =	12.569 tons/yr	
	SOx:	75.0 lbs/1000 gal =	285.652 tons/yr	
	NOx:	24.0 lbs/1000 gal =	91.409 tons/yr	
	V O C:	0.20 lbs/1000 gal =	0.762 tons/yr	
	C O:	5.0 lbs/1000 gal =	19.043 tons/yr	
	Dryer Burner	(waste oil/ vaporizing bu	rner)	
The following calculations dete			0.000	% Ash
		760 hours of use and AP-42, Chapter 1.11	0.000	% Lead
Pollutar	nt: 0.0 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		al * 2000 lbs/ton	(0- / ()-/	
	PM:	0.0 lbs/1000 gal =	0.000 tons/yr	
	P M-10:	0.0 lbs/1000 gal =	0.000 tons/yr	
	S O x:	50.0 lbs/1000 gal =	0.000 tons/yr	
	NOx:	11.0 lbs/1000 gal =	0.000 tons/yr	
	VOC	1.0 lbs/1000 gal =	0.000 tons/yr	
	C O:	1.7 lbs/1000 gal =	0.000 tons/yr	
	Pb:	0.0 lbs/1000 gal =	0.000 tons/yr	
	•		,··· • ,	

	Dryer Burner	(waste oil/atomizing burn	,
The following calculations determine			1.000
fuel oil @	% sulfur, based on 8	3760 hours of use andAP-42 Chapter 1.11	0.010
Pollutant: _		tu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	142000.000 Btu/g	al * 2000 lbs/ton	
	P M:	66.0 lbs/1000 gal =	244.293 tons/yr
	P M-10:	57.0 lbs/1000 gal =	210.980 tons/yr
	S O x:	107.0 lbs/1000 gal =	396.051 tons/yr
	N O x:	16.0 lbs/1000 gal =	59.223 tons/yr
	VOC	1.0 lbs/1000 gal =	3.701 tons/yr
	C O:	2.10 lbs/1000 gal =	7.773 tons/yr
	Pb:	0.50 lbs/1000 gal =	1.851 tons/yr
ı	Dryer Burner	(butane)	
The following calculations determine			
		cubic feet, based on 8760 hours of use and A	.P-42, Table 1.5-1
Pollutant: _		tu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	102600.0 Btu/g	al * 2000 lbs/ton	
	PM:	0.6 lbs/1000 gal =	3.074 tons/yr
	PM-10:	0.6 lbs/1000 gal =	3.074 tons/yr
	S O x:	0.02 lbs/1000 gal =	0.092 tons/yr
	NOx:	21.0 lbs/1000 gal =	107.579 tons/yr
	V O C:	0.26 lbs/1000 gal =	1.332 tons/yr
	C O:	3.6 lbs/1000 gal =	18.442 tons/yr
ı	Dryer Burner	(propane)	
The following calculations determine	ine the amount of e	missions created by propane	
gas @ 0.20 g	grains sulfur per 100	cubic feet, based on 8760 hours of use and A	.P-42, Table 1.5-1
Pollutant:	120 000 MMR	tu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
i olididirit		al * 2000 lbs/ton	E1 (155/1000 gai) = (10113/y1)
	o locale Blang	a. 2000 ibs/to:	
	PM:	0.6 lbs/1000 gal =	3.447 tons/yr
	PM-10:	0.6 lbs/1000 gal =	3.447 tons/yr
	S O x:	0.02 lbs/1000 gal =	0.115 tons/yr
	NOx:	19.0 lbs/1000 gal =	109.141 tons/yr
	V O C:	0.25 lbs/1000 gal =	1.436 tons/yr
	C O:	3.2 lbs/1000 gal =	18.382 tons/yr

% Ash % Lead

** aggregate drying: drum-mix plant **

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and AP-42, Chapter 11.1, Table 11.1-3, rev. 12/00

PM:	28 lbs/ton x	400.0	tons/hr x	8760 hrs/yr =	49056.000 tons/yr
		2000	lbs/ton		
P M-10:	6.5 lbs/ton x	400	tons/hr x	8760 hrs/yr =	11388.000 tons/yr
	_	2000	lbs/ton		
Lead:	3.30E-06 lbs/ton x	400	tons/hr x	8760 hrs/yr =	0.006 tons/yr
	_	2000	lbs/ton		
HAPs:	0.0076 lbs/ton x	400	tons/hr x	8760 hrs/yr =	13.315 tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

** aggregate drying: batch-mix plant **

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

PM:	32 lbs/ton x	0.0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton		
P M-10:	4.5 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton		
Lead:	3.30E-06 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.000 tons/yr
	_	2000	lbs/ton		
HAPs:	0.0076 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.000 tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

** conveying / handling **

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 11.19.2

PM:	0.003 lbs/to	on x	372.00 tons/hr x	8	760 hrs/yr =	4.920 tons/yr
			2000 lbs/ton			
	P M-10:	10% of PM =				0.492 tons/yr
Screening	PM:	0.00 tons/hr x		0.0315 lbs/ton	/ 2000 lbs/ton x	8760 hrs/yr =
	P M-10:	10% of PM =				0.000 tons/yr

AP-42 Ch.11.19.2

0.000 tons/yr

0.003 lbs/ton

** unpaved roads **

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8760 hours of use and AP-42, Ch 11.2.1.

A. Euclid Off	Road Truck trips/hr x				
	miles/roundtrip x				
	hrs/yr =		25842.0 miles per year		
For PM	111 O/ J1	For PM-10			
	Ef =		*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]		
11.24	=		lb/mile		
10	where k =	2.6	(particle size multiplier for PM-10) (k=10	o for PM-30 or TSP))
4.8	s =		mean % silt content of unpaved roads	,	
0.5	b =		Constant for PM-10 (b = 0.5 for PM-30	or TSP)	
0.4	c =		Constant for PM-10 (c = 0.4 for PM-30		
21	W =		tons average vehicle weight	,	
0.2	Mdry =		surface material moisture content, % (d	efault is 0.2 for dry	conditions)
125	p =		number of days with at least 0.254mm of		
	11.24	lb/mi x	25842 mi/yr =	PM `	145.23 tons/yr
		2000	lb/ton		
	2.55	lb/mi x	25842 mi/yr =	PM-10	32.96 tons/yr
		2000	lb/ton		
Front-End Loa					
	trips/hr x				
	miles/roundtrip x				
	hrs/yr =		32727.4 miles per year		
For PM		For PM-10			
			[(W/3)^b]/[(Mdry/0.2)^c]}[(365-p)/365]		
11.24	=		lb/mile		
10	where k =		(particle size multiplier for PM-10) (k=10	of tor PM-30 or TSP)	
4.8	s =		mean % silt content of unpaved roads	TOD)	
0.5	b =		Constant for PM-10 (b = 0.5 for PM-30		
0.4	C =		Constant for PM-10 (c = 0.4 for PM-30	or ISP)	
28	W =		tons average vehicle weight	-fk :- 0 0 fd	
0.2	Mdry =		surface material moisture content, % (d		
125	p =		number of days with at least 0.254mm (,
=	11.24	lb/mi x	32727.36 mi/yr =	PM	183.93 tons/yr
		2000	ID/IOII		
	2.19	lb/mi x	32727.36 mi/yr =	PM-10	35.83 tons/yr
		2000	lb/ton		
C. Semi Truck					
	trips/hr x				
	miles/roundtrip x				
	hrs/yr =	F DM 40	0.0 miles per year		
For PM	Г.	For PM-10	*[/\^//2\^/==\/2051		
0.04	ET =		*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]		
9.21 10			lb/mile	0 f DM 00 TOD)	
	where k =		(particle size multiplier for PM-10) (k=10	J for PIVI-30 or 15P)	
4.8	s =		mean % silt content of unpaved roads	or TCD)	
0.5 0.4	b =		Constant for PM-10 (b = 0.5 for PM-30 Constant for PM 10 (c = 0.4 for PM 30 c		
25.5	c =		Constant for PM-10 (c = 0.4 for PM-30 c	UI 13P)	
0.2			tons average vehicle weight	ofoult io 0 2 for de-	oonditions\
125	Mdry =		surface material moisture content, % (d		
125	p =	125	number of days with at least 0.254mm of	or precipitation (See	1 1gule 13.2.2-1)

	9.21 lb/n	ni x	0 mi/yr =	PM	0.00 tons/yr
		2000 lb/ton			
	1.93 lb/n		0 mi/yr =	PM-10	0.00 tons/yr
		2000 lb/ton			
All Trucking	Total PM:	329.16 tons/yr			
	Total PM-10:	68.79 tons/yr			

* * storage * *

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use and AP-42, Ch 11.2.3.

Total PM-10:

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15) 1.74 lbs/acre/day for sand 1.16 lbs/acre/day for stone 1.16 lbs/acre/day for slag = 1.16 lbs/acre/day for gravel 1.16 lbs/acre/day for RAP where s = 1.5 % silt for sand s = 1.0 % silt of stone s = 1.0 % silt of slag s = 1.0 % silt of gravel s = 1.0 % silt for RAP p = 125 days of rain greater than or equal to 0.01 inches f = 15 % of wind greater than or equal to 12 mph Ep (storage) = $\frac{\text{Ef * sc * (20 cuft/ton) * (365 days/yr)}}{(2000 lbs/ton)*(43560 sqft/acre)*(25 ft)}$ 0.076 tons/yr for sand 0.194 tons/yr for stone 0.000 tons/yr for slag 0.097 tons/yr for gravel 0.132 tons/yr for RAP Total PM: 0.499 tons/yr 13,000 tons storage capacity for sand where sc = 50,000 tons storage capacity for stone sc = 000 tons storage capacity for slag sc = sc = 25,000 tons storage capacity for gravel 34 ,000 tons storage capacity for RAP sc = P M-10: 35% of PM = 0.026 tons/yr for sand 35% of PM = 0.068 tons/yr for stone 35% of PM = 0.000 tons/yr for slag 35% of PM = 0.034 tons/yr for gravel 0.046 tons/yr for RAP 35% of PM =

0.174 tons/yr

natural gas	#2 oil		#4 oil		waste oil	
P M: 49392 tons/yr	P M:	49398 tons/yr	P M:	49398 tons/yr	P M:	49635 tons/yr
P M-10: 11462 tons/yr	P M-10:	11470 tons/yr	P M-10:	11470 tons/yr	P M-10:	11668 tons/yr
S O x: 5.16 tons/yr	SOx:	275.26 tons/yr	S O x:	290.50 tons/yr	S O x:	400.90 tons/yr
N O x: 101.30 tons/yr	NOx:	92.85 tons/yr	N O x:	92.85 tons/yr	N O x:	60.66 tons/yr
V O C: 3.09 tons/yr	V O C:	0.957 tons/yr	V O C:	0.957 tons/yr	V O C:	3.90 tons/yr
C O: 44.94 tons/yr	C O:	19.83 tons/yr	C O:	19.83 tons/yr	C O:	8.56 tons/yr
Lead: 0.006 tons/yr	Lead:	0.006 tons/yr	Lead:	0.006 tons/yr	Lead:	1.856 tons/yr
HAPs: 13.32 tons/yr	HAPs:	13.32 tons/yr	HAPs:	13.315 tons/yr	HAPs:	13.315 tons/yr

butane			propane		
P M:	49394	tons/yr	P M:	49394	tons/yr
P M-10:	11461	tons/yr	P M-10:	11461	tons/yr
S O x:	4.94	tons/yr	S O x:	4.96	tons/yr
NOx:	109.02	tons/yr	NOx:	110.58	tons/yr
V O C:	1.53	tons/yr	V O C:	1.63	tons/yr
C O:	19.23	tons/yr	C O:	19.17	tons/yr
Lead:	0.006	tons/yr	Lead:	0.006	tons/yr
HAPs:	13.32	tons/yr	HAPs:	13.32	tons/yr

B. Source emissions after controls

dr	yer combustion: gas		
PM:	1.00 tons/yr x	0.00100 emitted after controls =	0.001 tons/yr
P M-10:	3.99 tons/yr x	0.00100 emitted after controls =	0.004 tons/yr
dr	yer combustion: #2 oil		
PM:	7.62 tons/yr x	0.00100 emitted after controls =	0.008 tons/yr
P M-10:	12.57 tons/yr x	0.00100 emitted after controls =	tons/yr
ho	ot oil heater combustion: gas	<u> </u>	
PM:	0.018 tons/yr x	1.00000 emitted after controls =	0.018 tons/yr
P M-10:	0.072 tons/yr x	1.00000 emitted after controls =	0.072 tons/yr
ho	ot oil heater combustion: #2	oil	
PM:	0.136 tons/yr x	1.00000 emitted after controls =	0.136 tons/yr
P M-10:	0.225 tons/yr x	1.00000 emitted after controls =	0.225 tons/yr
ho	ot oil heater combustion: but	ane	
PM:	0.000 tons/yr x	1.00000 emitted after controls =	0.000 tons/yr
P M-10:	0.000 tons/yr x	1.00000 emitted after controls =	0.000 tons/yr
ho	ot oil heater combustion: pro	pane	
PM:	0.041 tons/yr x	1.00000 emitted after controls =	0.041 tons/yr
P M-10:	0.041 tons/yr x	1.00000 emitted after controls =	0.041 tons/yr
dr	ver combustion: #4 oil		
PM:	7.62 tons/yr x	0.00100 emitted after controls =	0.008 tons/yr
P M-10:	12.57 tons/yr x	0.00100 emitted after controls =	0.013 tons/yr
dr	yer combustion: waste oil		
PM:	244.29 tons/yr x	0.00100 emitted after controls =	0.244 tons/yr
P M-10:	210.98 tons/yr x	0.00100 emitted after controls =	tons/yr
dr	yer combustion: butane		
PM:	3.07 tons/yr x	0.00100 emitted after controls =	0.003 tons/yr
P M-10:	3.07 tons/yr x	0.00100 emitted after controls =	0.003 tons/yr

aryer	compustion: propane	
PM:	3.45 tons/yr x	0.00100 emitted after controls =
P M-10:	3.45 tons/yr x	0.00100 emitted after controls =

0.003 tons/yr 0.003 tons/yr

aggregate drying:

 P M:
 49056.00 tons/yr x
 0.00100 emitted after controls =
 49.056 tons/yr

 P M-10:
 11388.00 tons/yr x
 0.00100 emitted after controls =
 11.388 tons/yr

conveying/handling:

 P M:
 4.92 tons/yr x
 1.000 emitted after controls =
 4.920 tons/yr tons/yr

 P M-10:
 0.49 tons/yr x
 1.000 emitted after controls =
 0.492 tons/yr

screening

 P M:
 0.00 tons/yr x
 1.000 emitted after controls =
 0.000 tons/yr tons/yr

 P M-10:
 0.00 tons/yr x
 1.000 emitted after controls =
 0.000 tons/yr

unpaved roads:

 P M:
 329.16 tons/yr x
 50.00% emitted after controls =
 164.580 tons/yr

 P M-10:
 68.79 tons/yr x
 50.00% emitted after controls =
 34.394 tons/yr

storage:

 P M:
 0.499 tons/yr x
 50.00% emitted after controls =
 0.249 tons/yr

 P M-10:
 0.174 tons/yr x
 50.00% emitted after controls =
 0.087 tons/yr

Emissions after controls (combustion plus production) are as follows:

	Butane	Propane	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	218.94	218.94	218.94	218.95	218.95	219.19	tons/yr
P M-10:	46.59	46.59	46.59	46.60	46.60	46.80	tons/yr

II. Allowable Emissions

A. The following calculations determine compliance with 326 IAC 6-1-2(a), which limits stack emissions from this plant to 0.03 gr/dscf:

0.03 grains *	70000.000 acfm *			528	*	100	- 4.7 % moisture
dscf		4	+ +		260 Temp		100
525600 minutes *		1 *			1 ton	=	55.099 tons/yr
year		7000 grains			2000 lbs		

To meet 326 IAC 6-1-2(a), the following value must be less than the amount calculated above: 49.44 tons/yr

B. The following calculations determine the maximum sulfur content of distillate #2 fuel oil allowable by 326 IAC 7:

C. The following calculations determine the maximum sulfur content of residual waste fuel oil allowable by 326-IAC 7:

| Imit: 1.6 | lbs/MMBtu | 1.6 | lbs/1000gal | 227.2 | lbs/1000gal | 227.2 | lbs/1000gal | 214.0 | lbs/1000 gal | 1.062 | (check burner type) | 214.0 | lbs/1000 gal | 214.0 | lbs/10

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

and to limit SO2 emissions to 99 tons per year or less.

 limit: 0.5 lbs/MMBtu

 0.5 lbs/MMBtu x
 138000.000 Btu/gal=
 69 lbs/1000gal

 69 lbs/1000gal /
 150.0 lbs/1000 gal =
 0.460

 Sulfur content must be less than or equal to
 0.460 % to comply with 326 IAC 7

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON NOx

FUEL USAGE LIMITATION FOR BURNER (Gas)

104.03 tons NOx year	*	2000 <u>lbs</u> ton	=	208060 <u>lbs NOx</u> year	-
208060 lbs NOx year	1	190.0 Ibs NOx MMcf	=	1095.05 MMcf year	-
1095.05 <u>MMcf</u> year	*	98.5 tons/yr 104.03 tons/yr	=	1036.8 MMcf year	_FESOP Limit
FUEL USAGE LIMITATION FOR BU	RNER (#2 Oil)				
95.22 tons NOx year	*	2000 Ibs ton	=	190434.00 lbs NOx year	_
190434.00 <u>lbs NOx</u> year	1	24 <u>Ibs</u> 1000 gal	=	7934.75 kgal year	_
7934.75 <u>kgal</u> year	*	98.5 tons/yr 95.22 tons/yr	=	0.0 kgal year	_FESOP Limit
FUEL USAGE LIMITATION FOR BU	RNER (#4 Oil)				
95.22 tons NOx year	*	2000 Ibs ton	=	190434.00 lbs NOx year	-
190434.00 <u>lbs NOx</u> year	I	24.0 lbs 1000 gal	=	7934.75 <u>kgal</u> year	_
7934.75 <u>kg</u> al year	*	98.5 tons/yr 95.22 tons/yr	=	0.0 kgal year	_FESOP Limit
FUEL USAGE LIMITATION FOR BU	RNER (Waste Oil)				
61.69 tons NOx year	*	2000 <u>Ibs</u> ton	=	123380.00 lbs NOx year	-
123380.00 lbs NOx year	1	16.0 lbs 1000 gal	=	7711.25 kgal year	_
7711.25 <u>kgal</u> year	*	98.5 tons/yr 61.69 tons/yr	=	0.0 kgal year	FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (Propane)

	ons NOx year	*	2000 <u>lbs</u> ton	= 2	218281.97	lbs NOx year	
218281.97 <u>I</u>	bs NOx year	1	19.0 lbs 1000 gal	=	11488.52	kgal year	
11488.52 <u>I</u>	kgal year	* 10	98.0 tons/yr 09.14 tons/yr	=	10315.8	kgal year	FESOP Limit
FUEL USAGE LIMITA	ATION FOR BURNER ((Butane)					
	ons NOx year	*	2000 <u>lbs</u> ton	= 2	214000.00	lbs NOx year	
214000.00 [bs NOx year	1	21.0 lbs 1000 gal	=	10190.48	kgal year	
10190.48 <u>I</u>	kgal year	* 10	98.5 tons/yr 07.00 tons/yr	=	9381.0	kgal year	FESOP Limit
FUEL USAGE LIMITATION: BASED	O ON SO2						
FUEL USAGE LIMITA	ATION FOR BURNER	(Gas)					
0.329 <u>t</u>	ATION FOR BURNER tons SO2 year		2000 <u>lbs</u> ton	=	658.00	lbs SO2 year	
0.329 <u>t</u>) 658.00 <u>I</u>	tons SO2 year			=	658.00 1096.67	year	
0.329 <u>1</u> 658.00 <u>1</u> 1096.67 <u>1</u>	bs SO2		ton 0.6 lbs SO2		1096.67	year MMcf	FESOP Limit
0.329 <u>1</u> 658.00 <u>1</u> 1096.67 <u>1</u>	tons SO2 year bs SO2 year	*	0.6 lbs SO2 MMcf 95.1 tons/yr	=	1096.67	year MMcf year MMcf	FESOP Limit
0.329 <u>f</u> 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	bs SO2 year bs SO2 year MMcf year	/ * (#2 Oil)	0.6 lbs SO2 MMcf 95.1 tons/yr	=	1096.67	year MMcf year MMcf year	FESOP Limit
0.329 <u>f</u> 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	bs SO2 year MMcf year ATION FOR BURNER tons SO2 year	/ * (#2 Oil)	0.6 lbs SO2 MMcf 95.1 tons/yr 0.33 tons/yr	= = 5	1096.67 0.0	year MMcf year MMcf year Ibs SO2 year	FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

	tons SO2 year	* 2000	lbs =	595108	lbs SO2 year
595108.00	lbs SO2 year	/ 75.0	lbs = 1000 gal	7934773.3333	gal year
7934773.33	gal year	* 95.1 297.55	_tons/yr =	2536000.0	gal FESOP Limit year
FUEL USAGE LIMITA	ATION FOR BURNER	(Waste Oil)			
	tons SO2 year	* 2000	lbs =	825106.00	lbs SO2 year
825106.00	lbs SO2 year	/ 107.0	lbs = 1000 gal	7711271.03	gal year
7711271.03	gal year		tons/yr =	1777570.1	gal FESOP Limit year
FUEL USAGE LIMITA	ATION FOR BURNER	(Propane)			
	tons SO2 year	* 2000	lbs =	230.00	lbs SO2 year
230.00	lbs SO2 year	0.02	lbs =	11500000.00	gal year
11500000.00	gal year		_tons/yr =	0.00	gal FESOP Limit year
FUEL USAGE LIMITA	ATION FOR BURNER	(Butane)			
	tons SO2 year	* 2000	lbs =	192.00	lbs SO2 year
192.00	lbs SO2 year	/ 0.02	lbs =	10666666.67	gal year
10666666.67	gal year		_tons/yr =	0.0	gal FESOP Limit year

** Reciprocating Internal Combustion Engines **

The following calculations determine the amount of emissions created by #2 distillate fuel oil based on 8760 hours of use, AP-42 Ch. 3.3 and EPA SCC #2-03-001-01:

138,000 Btu/gal

0.505 MMBtu/hr * 8760 hr/yr * Ef (lbs/MMBtu) = (tons/yr)

2000 lbs/ton

PM: 0.31 lbs/MMBtu = P M-10: 0.31 lbs/MMBtu = 0.686 tons/yr **0.686** tons/yr

Pollutant:

	S O x: N O x: V O C: C O:	0.29 lbs/MMBtu = 4.41 lbs/MMBtu = 0.40 lbs/MMBtu = 0.95 lbs/MMBtu =	0.641 tons/yr 9.75 tons/yr 0.885 tons/yr 2.10 tons/yr
Pollutant:	5.473	MMBtu/hr * 8760 hr/yr 2000 lbs/ton	* Ef (lbs/MMBtu) = (tons/yr)
	P M: P M-10: S O x: N O x: V O C: C O:	0.0697 lbs/MMBtu = 0.0573 lbs/MMBtu = 0.505 lbs/MMBtu = 3.10 lbs/MMBtu = 0.10 lbs/MMBtu = 0.81 lbs/MMBtu =	1.67 tons/yr 1.37 tons/yr 12.1 tons/yr 74.3 tons/yr 2.40 tons/yr 19.4 tons/yr

Assume rapid cure and 95% evaporative loss of diluent. Percent diluent in liquid binder =

Average Density of Asphalt Cement = Average Density Diluent = 9.18 lbs/gal 5.84 lbs/gal

The FESOP VOC emission limit of 99.0 tons per year minus the worst case sum of emissions from combustion and production = 92.20 tons/yr

Limited tons of liquid binder = (limited VOC emission rate/95%)/density of diluent * 2,000 lbs/ton *(density of diluent + ((1 - %diluent)/%diluent) * density of asphalt cement) / 2000 lbs/ton)

LIQUID BINDER USAGE LIMITATION = 2124 tons/yr